

Army Acquisition Corps in Action



Acquisition Support to Current Operations (OEF/OIF)

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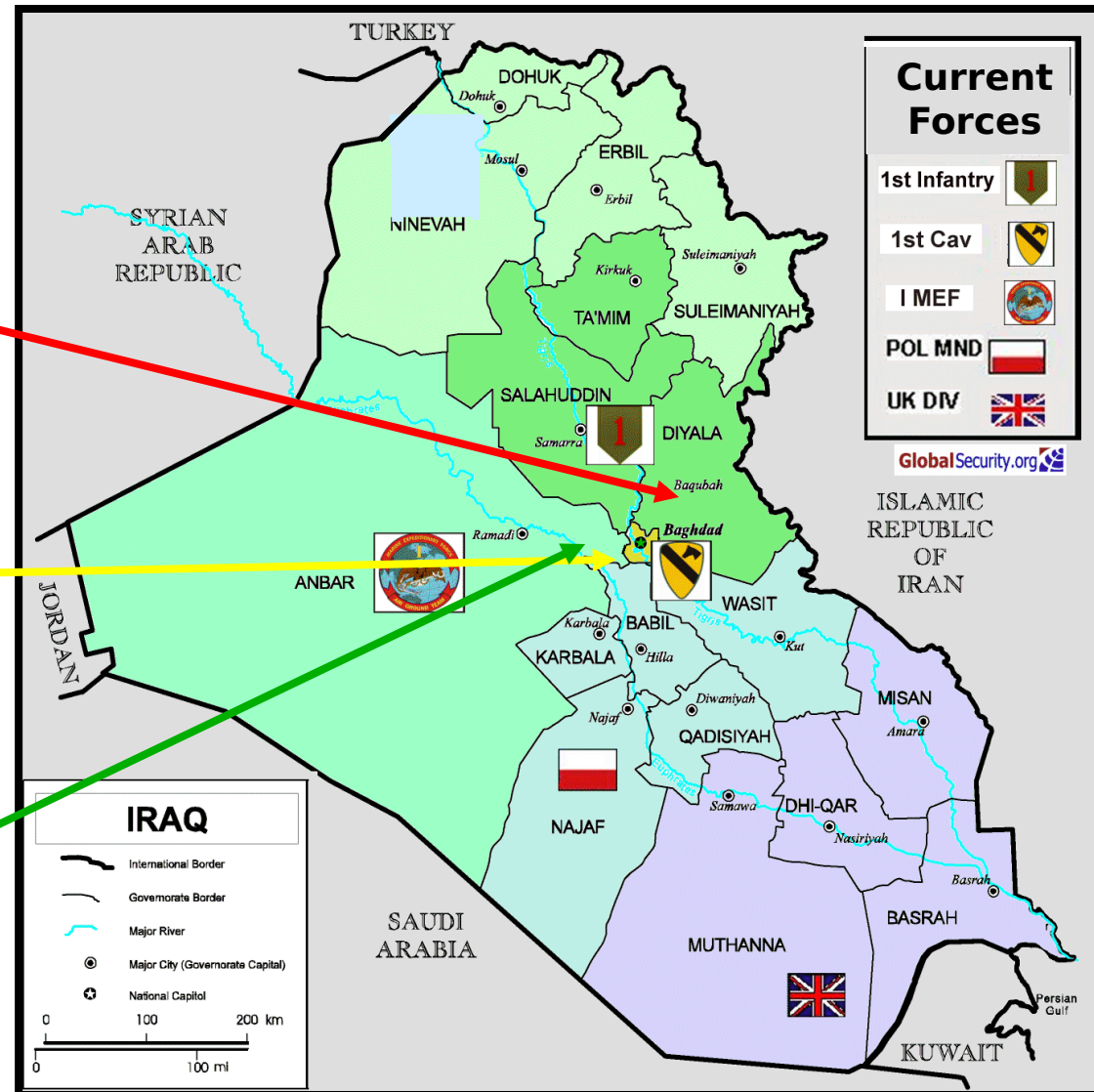
Geography of Iraq

• LSA Anaconda

• MNC-I/MNF-I HQ

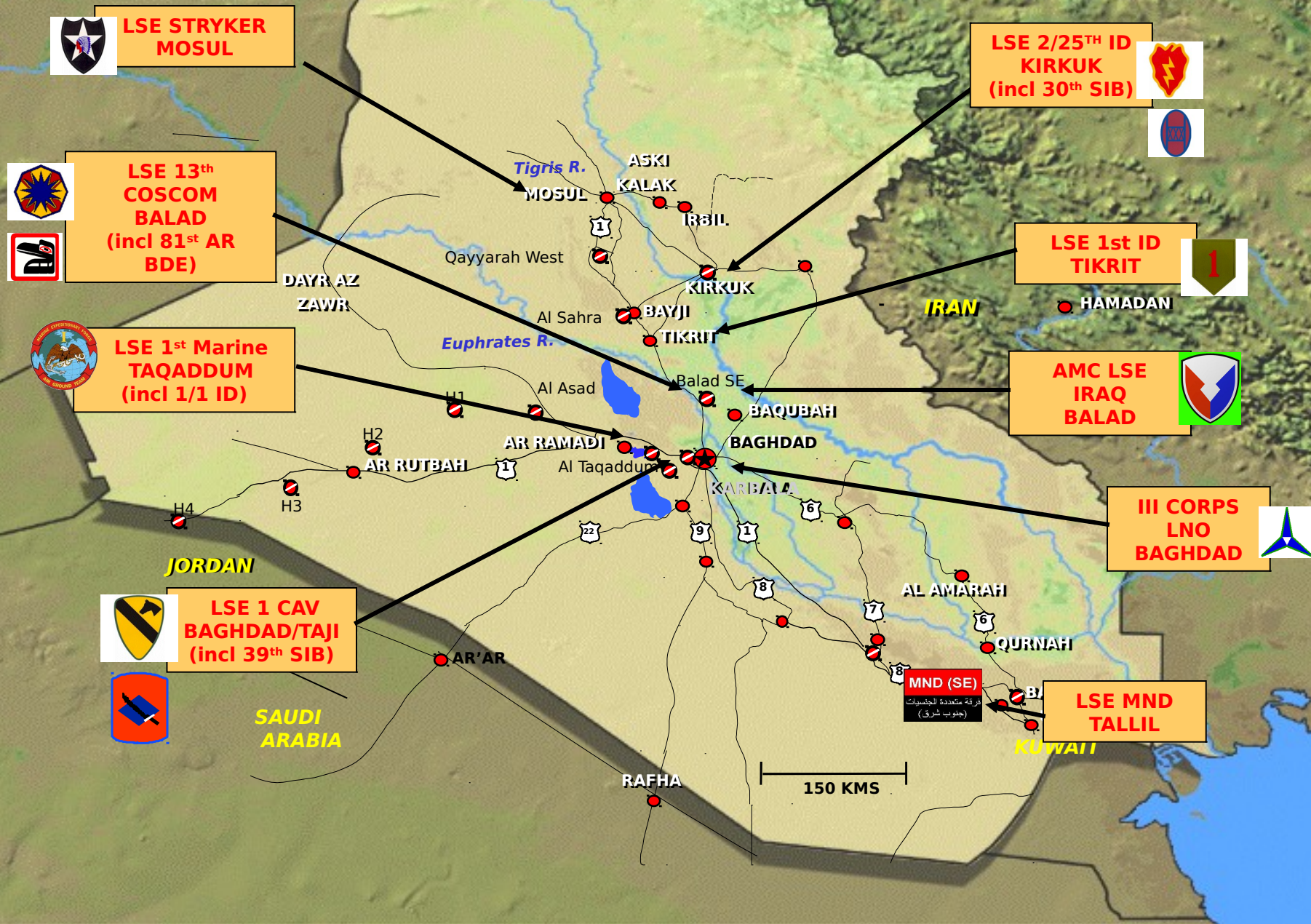


• Baghdad International Airport (BIAP)





MC LSE LOCATIONS OIF II



Geography of Kuwait

Camp New York
Camp New Jersey
Camp Pennsylvania
Camp Buehring

Camp Doha (APOD)
Camp Arifjan

SPOD

Ali Al-Salem Air Base

→ **Fixed Facilities**
 → **Staging Bases**



ASA (ALT) Forward Organization Kuwait

Camp Doha



- Coalition Forces Land Component Command HQ
- 5 PEO/PM Reps present
 - PEO Ground Combat Systems (LTC/Major)
 - PM SBCT (Stryker Bde) (Civilian)
 - PEO C3T/(3ea Civilians)

Camp Arifjan



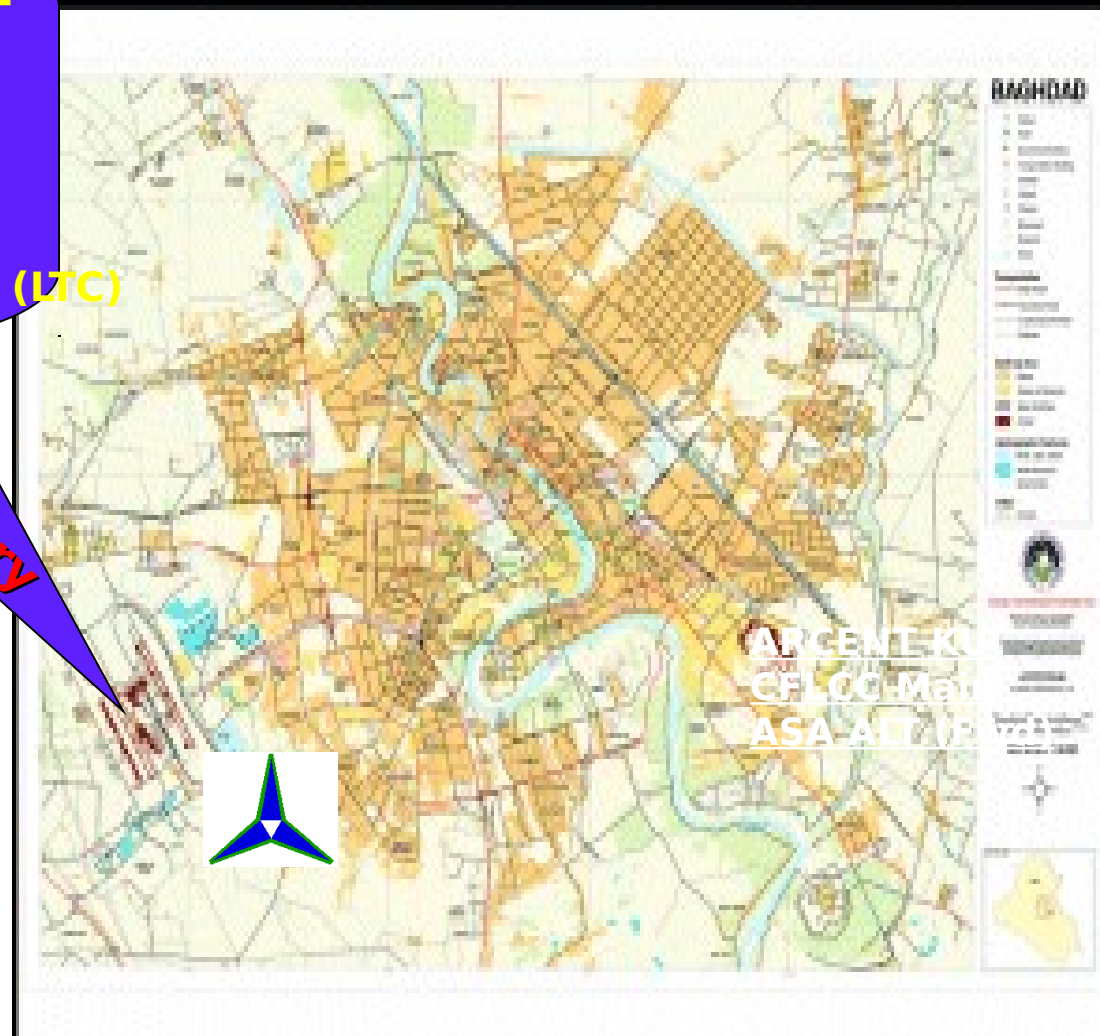
1 Hour Drive

- CFLCC C-4 based here
- AMC Southwest Asia (SWA) here
- 2 PEO/PM Reps present
 - CS/CSS (Major)
 - Blue Force Tracking (Major)

ASA (ALT) Forward Organization Iraq, as of Apr 04

- Multi-National Corps-Iraq / Multi-National Forces-Iraq
- 3ea PEO/PM Reps present
 - PEO IEWS LNO (Major)
 - PEO C3T LNO (LTC/Major)
 - PM SW/PM ECM Fielding OIC (LTC)
- REF HQs

Camp Victory



AAC/AMC in OEF/OIF

This is what it's all about!

Acquisition Corps Pa

PM on the ground!

AAC/AMC in OEF/OIF





AAC/AMC in OEF/OIF





AAC/AMC in OEF/OIF



Red River Army Depot
Reactive Armor Team



CECOM ESSC-FWD



PM Close Combat Systems
Countermine Division



PM Demilitarization



Aberdeen Test Center



AAC/AMC in OEF/OIF



AAC/AMC in OEF/OIF





AAC/AMC in OEF/OIF



PM NV/RSTA Sensors in OEF/OIF

- 100 M56 & M58 smoke vehicles
- 1500 Marine Corps combat vehicles

DVE



Firefinder AN/TPQ-36 & AN/TPQ-37



IGNAT with Lynx I



HTI SGF



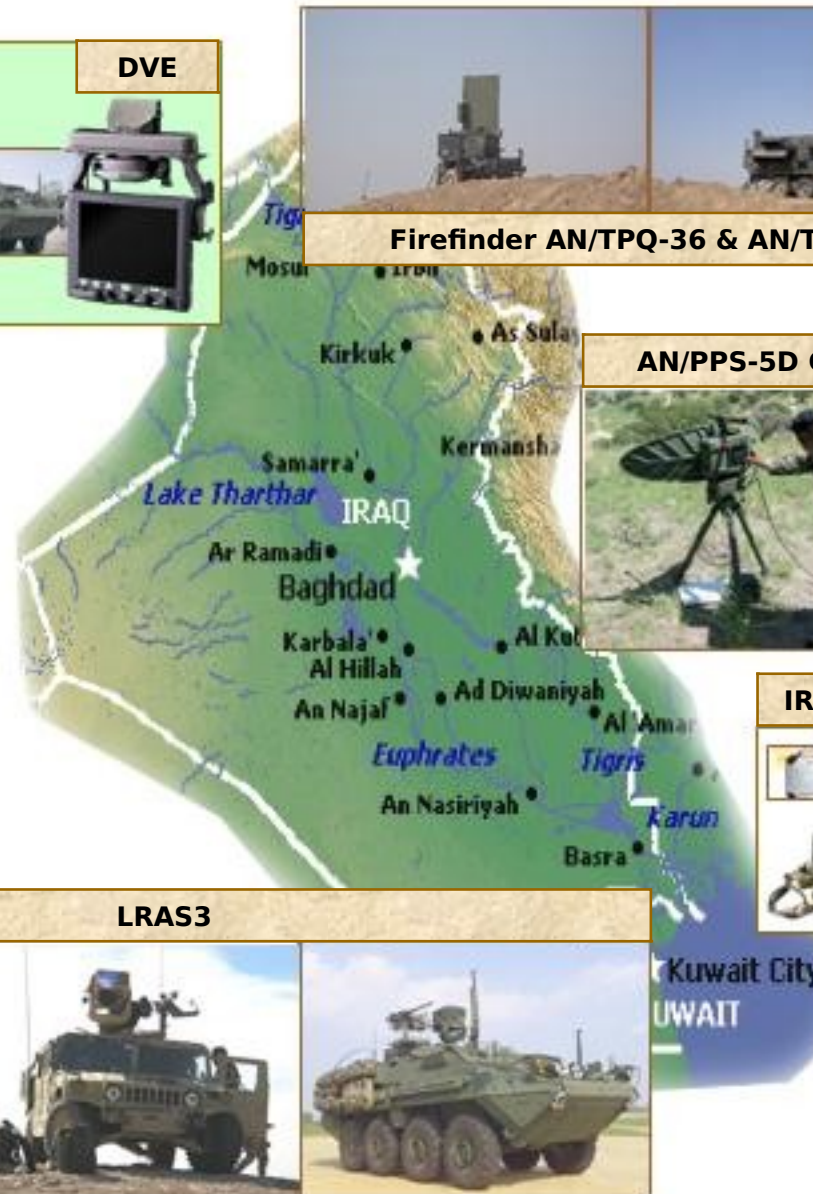
AN/PPS-5D GSR



IREMBASS & REMBASS-II



LRAS3



Counterfire Radars in OEF/OIF

Addressed AN/TPQ-36 and AN/TPQ-37 Counterfire Issues in OIF Concentrating on Performance



Total -

34

3 - AN/TPQ-36(V)5

18- AN/TPQ-36(V)8

4- AN/TPQ-37(V)8

2- AN/TPQ-37(V)6

7- AN/TPQ-37(V)5

Operational Readiness Floats (ORFs)

1 AN/TPQ-36(V)8

1 AN/TPQ-37(V)



AN/TPQ-37

Total - 5

2 - AN/TPQ-36(V)7

2 - AN/TPQ-36(V)8

1 - AN/TPQ-37(V)5



Firefinder Radar Issues in OIF

● Problem

- High demand/low density force protection system
- Thinking/versatile enemy (new threats)
- Asymmetric warfare
- Unsatisfactory readiness rates
- Poor system performance in some locations

● Solution

- Acquisition/Logistics professionals in action





LRC Near Term Sustainment Initiatives



- Forward positioned three (3) push packages under LAR control
- Established Tobyhanna Army Depot (TYAD) forward repair activity to include repair and test of 111 circuit card assemblies
- Put dedicated parts tracking personnel in theater
- Using priority transportation to expedite repair of NMC radars
- Providing tele-maintenance capability for 24 hour support
- Provided float generators in-theater to mitigate radar downtime
- Recommended changes to operator/maintenance POI's



Recommended Maintenance TTPs

- Verify Modular Azimuth Positioning System (MAPS) alignment
- Reduce impact of heat on ATG
- Calibrate and utilized test equipment
- Enforce maintenance schedules
- Return defective parts for repair

Measurable Results

- Improved AN/TPQ-36 OR rate in OIF from 85%, Jan 04 to 100%, Jul 04
- Improved AN/TPQ-37 OR rate in OIF from 65%, Jan 04 to 87%, Jul 04



Continuing Initiatives to Improve Operational Readiness

- Supplementing LARs with Contractor Field Service Representatives (CFSRs)
- Intensifying retrograde efforts
- Enhancing current TYAD FRA capability
- “Pit Stop” maintenance in theater
- Accelerating AN/TPQ-36 RECAP
- Initiating AN/TPQ-37 overhauls
- Modernization through spares
- Maintenance rotations through FRA in SWA
- RESET returning systems



Retrograde Yard



PM Firefinder OIF Support Actions

UNCLASSIFIED

Pre-War

- DA directed accelerated fieldings on AN/TPQ-36(V)8s
- Distributed and provided NET for special long range AN/TPQ-37 software

OIF1/OIF2 Support

- Distribution and training for special AN/TPQ-37 mortar software
- Development of special software to classify celebratory fire



PM NV RSTA Overview Jul 04ppt



Last Updated 5-Aug-04

UNCLASSIFIED





Emerging Performance Issues



- **PM Firefinder responded to request from III Corps Artillery for technical assistance to address performance issues: unconventional threats; extremely complex radar/terrain environment; harsh operating environment**
- **PM Firefinder personnel visited radar sites and collected data from CFOs, targeting officers, and radar techs for analysis at Fire Support Software Engineering Center (FSSEC)**
 - Acquisition logs
 - Environment
 - Radar locations
 - Munition data
- Completed hard drive data recording on three Q-36(V)8s in different environments
- Data being analyzed by Firefinder engineers and FSSEC
- **Air and ground clutter found to be a major performance issue**
 - Under the right conditions, a single helicopter has been shown to significantly impact radar performance



Ground Clutter Without Screening Crest



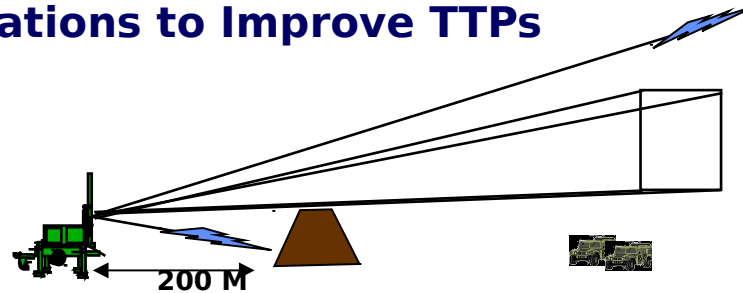
PM Firefinder Initiatives to Address Performance Issues



- Based on personal experience and on-the-ground observation, PM Firefinder personnel were able to:

- **Provide Recommendations to Improve TTPs**

- Radar Siting
- Radar Masking
- Terrain Following
- Video Integration
- Frequency Management
- Sensor Zones



Mask - Terrain feature, berm, building, sand bags, Hesco Bastion, etc...



- **Initiate emergency software changes to address identified issues - next software release Sep 2004**

- **Modify near and long term P3I efforts**

- Based on continuing evolution of the threat, PM Firefinder is conducting live fire testing with non-traditional munitions to identify further improvements



PM Forward Looking Infrared Support to OIF

Problem

- 3ID, PPS, & bulk of Army mounted force still equipped with Desert Storm era 1st Gen FLIRs prior to OIF
- US Army HTI 2nd Gen FLIR “state-of-the-art” in night vision combat overwatch
- Long Range Advanced Scout Surveillance Vehicle (LRAS3) with HTI 2nd Gen FLIR only fielded to 4ID and 1CAV prior to OIF
- HTI 2nd Gen FLIR was the ground commander’s best option for seeing through sand storms



Second Gen FLIR



4ID M2A3 Bradleys
w/Second Generation
FLIR
Loading up and moving
out





PM FLIR Support to OIF

Solution

- **Out of DAMPL fielding of LRAS3 to 3ID**
 - 12/19/02 HQDA G8 directs assessment of diverting LRAS3's to 3ID in Kuwait
 - 1/02/03 PM FLIR/G8/G3 consensus recommendation
 - 1/09/03 Plan approved by HQDA
 - 1/24/03 NET Team and fielders arrive in Kuwait
 - 2/18/03 Fielding and NET complete
 - 2/21/03 - Present FSRs support OIF1, OIF2, ...



Fielding at Camp New York, Kuwait



PM FLIR Support to OIF Troop Rotations

- Conducted LRAS3 AAR with 3ID May/Jun 03
- Positioning of FSRs in Iraq Jul/Sep/Nov 03
- Transfer of LRAS3 from 3ID to CJTF-7 and 1AD Aug 03
- Transfer of LRAS3 from 1AD to 1ID and other units Apr/May 04 for OIF2





Sustaining LRAS3 in OIF

• LRAS3 “Maintainer Training” Apr/May 04

- 15th FSB, 215th FSB, 1st FSB (12 soldiers, 4 LARS)

- LRAS3 unique test program set
- Maintenance support device
- Instructor Training Materials
- TM 11-5855-310-12
- Student handouts
- 45G Tool kits
- IMI



MOS 45G

24 hours minimum

- 20 hours introduction, fault isolate

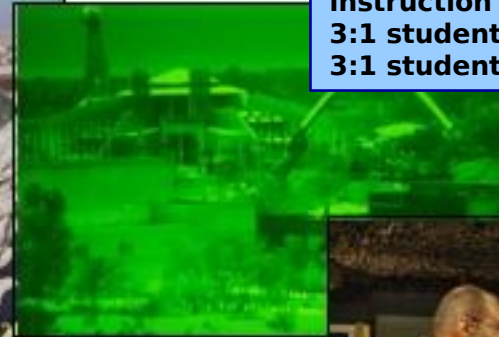
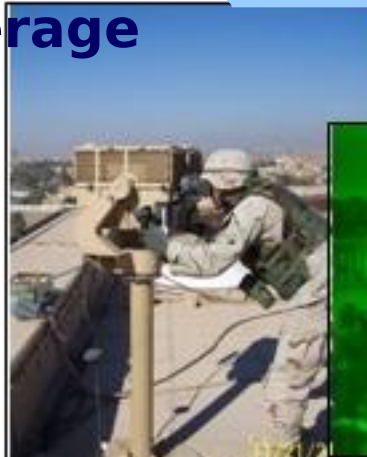
& remove/replace instruction

- 4 hours outside FTL instruction

3:1 student to instructor ratio

3:1 student to LRAS3 ratio

• Continued FSR coverage



Example of FSR Initiative



PM FLIR Support to OIF - Path Ahead

- **Assess user needs**
 - M1114 I-Kit installs
 - 110/220vAC power supply
 - Other P3I
 - Under armor operation
 - On-the-move operation
 - Mast mounting



Applying the Lesson Learned

- **Anticipate the requirements**
- **Prep now for OIF3, OIF4**
 - Use Army web sites for unit phone numbers
 - Train/field prior to deployment when possible
- **RESET returning units**

Training the 30th ESB at Ft Bragg NC





Army Acquisition Corps in Action Supporting the Warfighter

